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PATENT, TRADEMARK
AND COPYRIGHT LAW

FACSIMILE: (703) 684-1157

22388 U.S. PTO

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Date: September 19, 2003

Attorney Docket No. ASA-1157

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Sir: Transmitted herewith for filing is the patent application of:

Inventor: K. SHIGA et al (SEE ATTACHED LIST)

For:

Enclosed are:



11 Sheets of Drawings



This application is being filed without an executed Declaration.



Priority is claimed from Japan Application No. 2003-206165
filed August 6, 2003. ☐ A certified copy is attached herewith.



Copies of the disclosure documents listed on the attached PTO 1449 form and
☒ discussed in the specification or ☒ attached Information Disclosure Statement.



Small entity status under 37 CFR 1.9 and 1.27 is hereby claimed.



Specification: Abstract ☒, Description ☒ 32 pages; and ☒ 13 claim(s).



Preliminary Amendment.



Executed Declaration.

The filing fee is calculated as shown below:

Small Entity

Large Entity

For:	No. Filed	No. Extra
Basic Fee		
Total Claims	13 - 20 = *	0
Indep Claims	6 - 3 = *	3
<input type="checkbox"/> Multiple Dependent Claim (s)		

* If difference is less than zero
then enter '0' in second column

Rate	Fee
	\$ 375
x 9	\$
x 42	\$
+ 140	\$
Total	\$

OR

Rate	Fee
	\$ 750
x 18	\$ 0
x 84	\$ 252
+ 280	\$ 0
Total	\$ 1,002



A check or credit card payment form in the amount of \$ 1,002.00 is enclosed for the filing fee.



The Commissioner is hereby authorized to charge any additional fees that may be required to
Deposit Account No. 50-1417.

Respectfully Submitted,

By:

John R. Mattingly

Registration No. 30,293